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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,443	03/30/2004	Vishal Sarin	2102397-992980	5465
26379 7.	590 08/25/2005		EXAMINER	
DLA PIPER RUDNICK GRAY CARY US, LLP 2000 UNIVERSITY AVENUE			LUU, PHO M	
	O, CA 94303-2248		ART UNIT	PAPER NUMBER
	•		2824	
			DATE MAILED: 08/25/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/814,443	SARIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Pho M. Luu	2824				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a sy within the statutory minimum of thin will apply and will expire SIX (6) MON acause the application to become Al	reply be timely filed ty (30) days will be considered timel THS from the mailing date of this c 3ANDONED (35 U.S.C. § 133).	ly. ommunication.			
Status						
1) Responsive to communication(s) filed on						
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 2-9 is/are allowed. 6) ☐ Claim(s) 1 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9)⊠ The specification is objected to by the Examine	er.					
)⊠ The drawing(s) filed on <u>30 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	application No received in this National	Stage			
Attachmonto						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) ⊠ Notice of I 6) ⊠ Other: <u>Sea</u>	nformal Patent Application (PT0 o <u>rch History</u> .	O-152)			

DETAILED ACTION

This office action acknowledges receipt of the following items from the Applicant:
 The Specification, Claims, Abstract, Drawing and Oath or Declaration filed on 30

 March 2003.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. The abstract of the disclosure is objected to because it uses the phrase "system includes" in lines 3-4, which is implied. Correction is required. See MPEP § 608.01(b).

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4. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Haddad et al. (US. 6,275,415).

Regarding independent claim 1, Haddad et al. in Figure 6 discloses a method for programming (see column 1, lines 8-9) a memory cell comprising:

applying an increment current (current I_1 , I_2 , I_3 , I_4) to bit-lines (bit line BL which having contain total of bit line current $I_{BL} = I_1 + I_2 + I_3 + I_4$) of selected memory cells (cells 602, 604, 606, 608) during programming of the selected memory cells (for example, a programming current I_2 flows through the cell 604 from ground to source and drain and through bit-line BL which have the bit line current $I_{BL} = I_2$ only, see column 4, lines 30-35), the incremental current being substantially equal to leakage current of the bit line (see column 4, lines 30-43). To be more specifically, for example, a programming voltage is apply to the control gate of transistor cell 604 which is turn on and the current I_2 flow through cell 604 (selected cell) equal to bit line current ($I_{BL} = I_2$) and other unselected cell (602, 606, 608) are overerased with voltage will be very low

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and leakage current I_1 , I_3 and I_4 could flow through cells 602, 606 and 608 which means the bit line current I_{BL} then equal to I_2 and leakage current I_1 , I_3 and I_4 . (see column 4, lines 30-55).

Allowable Subject Matter

7. Claims 2-10 is allowed.

The following is an examiner's statement of reasons for allowance:

There is no teaching or suggestion in the prior art to: "detecting a leakage current on the bit line of the second memory array and applying an incremental current to the bit lines of the first memory array substantially equal to the detected current during programming of the first memory array" as claimed in the independent claim 2; or

"a first circuit having an input coupled to a bit line of a first one of the memory array and having an output coupled to a bit line of a second one of the memory array to apply a voltage on the bit line of the memory array equal to a voltage on the bit line of the first memory array during programming of the first memory array" as claimed in the independent claim 3; or

"the detector having a first input coupled to bit line of a second memory array having a second input coupled to the first output of the current source to receive the first current and having an output coupled to the bit line of the first memory array to apply a voltage on the bit line of the first memory array equal to the voltage on the bit line of the

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second memory array in the first mode and the first and second current being substantially equal" as claimed in the independent claim 10.

Conclusion

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8. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Pho M. Luu whose telephone number is 571.272.1876. The examiner can normally be reached on M-F 8:00AM – 5:00PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Richard Elms, can be reached on 571.272.1869. The official fax number for the organization where this application or proceeding is assigned is 703.872.9306 for all official communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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16 August 2005